

**Serial No.**

**10/078,377**

**Applicant**

Hanson, et al.

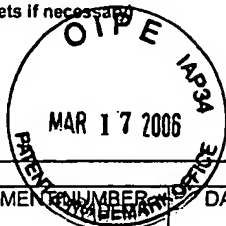
(Use several sheets if necessary)

Filing Date

TCT/A.U.

**February 21, 2002**

2681



U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
J S 						

**\*Examiner**

**Date Considered**

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

INFORMATION DISCLOSURE  
CITATION

(Use several sheets if necessary)

Atty. Docket No.

Serial No.

3978-8

10/078,377

Applicant

Hanson, et al.

Filing Date

TC/A.U.

February 21, 2002

2681

✓	5732359	03/1998	Baranowsky, II et al.			
✓	5761623	06/1998	Lupien et al.			
✓	5790554	08/1998	Pitcher et al.			
✓	5793843	08/1998	Morris.			
✓	5802483	09/1998	Morris.			
✓	5825775	10/1998	Chin et al.			
✓	5826188	10/1998	Tayloe et al.			
✓	5828659	10/1998	Teder et al.			
✓	5839075	11/1998	Haartsen et al.			
✓	5870673	02/1999	Haartsen.			
✓	5878344	03/1999	Zicker.			
✓	5890054	03/1999	Logsdon et al.			
✓	5910951	06/1999	Pearce et al.			
✓	5915214	06/1999	Reece et al.			
✓	5943333	08/1999	Whinnett et al.			
✓	5978679	11/1999	Agre.			
✓	5987011	11/1999	Toh.			
✓	6032042	02/2000	Kauppi.			
✓	6449259	09/2002	Allain et al.			
✓	2002/0098840	07/2002	Hanson et al.			
✓	2003/0120811	06/2003	Hanson et al.			

## FOREIGN PATENT DOCUMENTS

							TRANSLATION	
DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO		
5 63224422	09/1988	Japan						
5 3-32125	02/1991	Japan						

\*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

INFORMATION DISCLOSURE  
CITATION

(Use several sheets if necessary)

Atty. Docket No.

Serial No.

3978-8

10/078,377

Applicant

Hanson, et al.

Filing Date

TC/A.U.

February 21, 2002

2681

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, etc.)

h	"KeyWare™--A Wireless Distributed Computing Environment", Racotek White Paper, RACOTEK, Inc., Minneapolis, MN, 1995.
h	"MAVRIC 2000: Integrated Data and Voice Communications System", MAVRIC 2000 Performance Specifications Brochure, Metric Systems Corp., Acton, MA, 1991.
h	"RacoNet: Mobile Data Communication Services Product Catalog," Rev. 1.03, RACOTEK, Inc., Minneapolis, MN, 1993.
h	"Racotek: Design Considerations for Mobile Data Applications", Racotek 400-0054-00, RACOTEK, Inc., Minneapolis, MN, Jan. 1993.
h	"RacoNet: Mobile Data Communications Services Price List", Rev. 1.03, RACOTEK, Inc., Minneapolis, MN, 1993.
h	"MPS II System Component: Mobile System Printer", Racotek Sales Brochure, RACOTEK, Inc., Minneapolis, MN, Feb. 1990.
h	"MPS II System Component: Mobile System Data Terminal", Racotek Sales Brochure, RACOTEK, Inc., Minneapolis, MN, Feb. 1990.
h	"MPS II Component: Adaptive Network Modem", Racotek Sales Brochure, RACOTEK, Inc., Minneapolis, MN, Feb. 1990.
h	"Racotek Overview", RACOTEK, Inc., Minneapolis, MN, 1993.
h	"Unify Your Mobile Data Communications with RacoNet", Racotek Sales Brochure, RACOTEK, Inc., Minneapolis, MN, 1992.
h	"The Race is Won by the Fleet", Racotek Sales Brochure, RACOTEK, Inc., Minneapolis, MN, publication date unknown.
h	Datalines, vol. 5, No. 2, RACOTEK, Inc., Minneapolis, MN, Apr. 1993.
h	Datalines, vol. 5, No. 3, RACOTEK, Inc., Minneapolis, MN, Sep. 1993.
h	Datalines, vol. 6, No. 1, RACOTEK, Inc., Minneapolis, MN, Feb. 1994.
h	"RACOTEK/HDC: Operations Booklet for Mobile Data Terminals", RACOTEK, Inc., Minneapolis, MN, 1993.
h	SHPANCER et al., "Open Data-On-Voice Systems for SMRs", RACOTEK--Radio Computer Technologies, presented at NABER's 1990 Annual Meeting, May 9-12, Tampa, FL, 1990.
h	"How to Hold Together a Business that Heads Off in Every Direction", RaCoNet Networking Software, Racotek Sales Brochure, RACOTEK, Inc., Minneapolis, MN, publication date unknown.
h	Robert J. Fraser, "The MTS-Part II", Communications, pp. 52-55, Aug. 1991.
h	"Wireless Data Communications and RAM Mobile Data", RAM Mobile Data Sales Brochure, RAM Mobile Data U.S.A., 1992.
h	"RAM Mobile Data: Field Service", RAM Mobile Data Sales Brochure, RAM Mobile Data U.S.A., 1992.
h	"Market Opportunities for System Integrators, Mobile Data Terminal Manufacturers, Radio and Modem Manufacturers, and Software Developers", RAM Mobile Data Sales Brochure, RAM Mobile Data U.S.A., publication date unknown.
h	On the Air, a quarterly publication of ARDIS, Lincolnshire, IL, vol. 3, Spring 1993.
h	On the Air, a quarterly publication of ARDIS, Lincolnshire, IL, vol. 4, Jul. 1993.
h	On the Air, a quarterly publication of ARDIS, Lincolnshire, IL, vol. 5, Fall 1993.
h	Robert B. Euler, "Making the Mobile Communications Connection", MSM Magazine, Jun. 1990.
h	"ARDIS Marks First Birthday of Network Operation", ARDIS News Release, ARDIS, Lincolnshire, IL, Apr. 1991.
h	"ARDIS Extends its Reach into Canada", ARDIS News Release, ARDIS, Lincolnshire, IL, Feb. 1992.
h	"ARDIS Focuses on Sales Force Automation", ARDIS News Release, ARDIS, Lincolnshire, IL, Oct. 1993.
h	"ARDIS Sets the Standard for Wireless Data Communications", ARDIS News Release, ARDIS, Lincolnshire, IL, publication date unknown.
h	"How Does One Overnight Delivery Service Guarantee Overnight Success?", ARDIS Sales Advertisement, ARDIS, Lincolnshire, IL, publication unknown.

\*Examiner

Date Considered

64/24/2008

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

INFORMATION DISCLOSURE  
CITATION

(Use several sheets if necessary)

Atty. Docket No.

Serial No.

3978-8

10/078,377

Applicant

Hanson, et al.

Filing Date

TC/AU.

February 21, 2002

2681

h	"ServiceXpress", ARDIS Sales Brochure, ARDIS, Lincolnshire, IL, publication date unknown.
h	"ARDIS is the First Radio Frequency Network for the Motorola Envoy Wireless Personal Communicator", Communication by Ardis, ARDIS Sales Brochure, ARDIS, Lincolnshire, IL, publication date unknown.
h	"ARDIS", Company Profile Brochure, ARDIS, Lincolnshire, IL, publication date unknown.
h	"ARDISmailSM 100: The Wireless E-Mail Package", ARDIS Sales Brochure, ARDIS, Lincolnshire, IL, publication date unknown.
h	"Congratulations. You Have the Sale!", ARDIS Sales Brochure, ARDIS, Lincolnshire, IL, publication date unknown.
h	"Wireless Solutions Can Mean the Difference . . .", ARDIS Sales Brochure, ARDIS, Lincolnshire, IL, publication date unknown.
h	"Achieving the Highest Level of Productivity with New Thinking and a New Vision", ARDIS Sales Brochure, ARDIS, Lincolnshire, IL, publication date unknown.
h	Form S-1 Registration Statement of RACOTEK Inc. (with exhibits), as filed with the Securities and Exchange Commission on Oct. 22, 1993.
h	Amendment No. 1 to Form S-1 Registration Statement of RACOTEK Inc., as filed with the Securities and Exchange Commission on Nov. 4, 1993.
h	Ericsson GE, "Mobile Data System Evolution", publication date unknown.
h	Ericsson GE, "Mobile Data Questions & Answers", dated Mar. 3, 1994.
h	Ericsson GE, "Private Radio Systems EDACS.RTM. Data Advantage.TM. Technical Description", publication date unknown.
h	Motorola, Inc., "Integrated Voice and Data System Description", publication date unknown.
h	Motorola, Inc., "VRM-100 Vehicular Radio Modem", publication date unknown.
h	Motorola Private Systems Division Land Mobile Products Sector, "VRM 100 Vehicular Radio Modem For Integrated Voice; and Data Operation on Smartnet and SmartZone Trunked Radio Systems and Conventional Radio Systems--Product Description", Apr. 5, 1994.
h	Motorola Mobile Data Division, "RPM Native Mode Interface R1.1 Reference Manual", published Sep., 1992.
h	English Language Abstract of JP 63-224422.
h	English Language Abstract of JP 3-32125.
h	Hills, Alex et al., "Seemless Access to Multiple Wireless Data Networks: A Wireless Data Network Infrastructure at Carnegie Mellon University", IEEE Personal Communications Magazine, 3(1):56-63, Feb., 1996
h	Johnson, David B., "Scalable Support for Transparent Mobile Host Internetworking", Wireless Networks, vol. 1, No. 3, pp. 311-321 (1995).
h	Johnson, David B., "Scalable and Robust Internetwork Routing for Mobile Hosts", 14th International Conference on Distributed Computing Systems, Jun. 21-24, 1994, Pozman, Poland.
h	Johnson, David B., "Ubiquitous Mobile Host Internetworking", Proceedings of the Fourth Workshop on Workstation Operating Systems, IEEE Computer Society, Oct. 1993.
h	Perkins, Charles et al., "IMHP: A Mobile Host Protocol for the Internet", Computer Networks and ISDN Systems, vol. 27, No. 3, pp. 479-491 (1994).
h	Johnson, David B., "Mobile Host Internetworking Using IP Loose Source Routing", Carnegie Mellon University, School of Computer Science (1993).
h	Perkins, Charles et al., "Mobility Support in IPv6", Proceedings of the Second Annual International Conference on Mobile Computing and Networking (MobiCom '96), Nov. 10-12, 1996.
h	Solomon, J., "Applicability Statement for IP Mobility Support", The Internet Engineering Taskforce, RFC 2005, Oct. 1996.
h	Thyfault, M., "Wireless has a Support Act--Carriers at Comdex Tout Applications for Cellular Digital Packet Data," Information Week (1993). Available from DIALOG Corporation.

\*Examiner

Date Considered

02/24/2006

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

INFORMATION DISCLOSURE  
CITATION

(Use several sheets if necessary)

Atty. Docket No.

Serial No.

3978-8

10/078,377

Applicant

Hanson, et al.

Filing Date

TC/AU.

February 21, 2002

2681

h	Wexler, J., "CDPD Spec Could Embrace Analog Nets," Network World vol. 12, No. 13 (Mar. 1995): pp. 17, 24. Available from DIALOG Corporation.
h	"Hybrid Cellular Data Technology in Works," Telecommunications Alert vol. 12, No. 222 (Nov. 1995). Available from Lexis.
h	Schwartz, J., "GTE Mobilnet Retrofits CDPD Network to Connect with Analog Cellular," Communications Week (1996): p. 53. Available from DIALOG Corporation.
h	"GTE Closer to Installing Circuit Switched-CDPD Gateway; Plans to Offer National 'CDPD Access' via '800' Number Service," Wireless Data News, vol. 4, Issue 6 (Mar. 1996). Available from DIALOG Corporation.
h	Washburn, B., "CDPD: The Tower of Power," America's Network (Aug. 1996): p. 42. Available from Lexis.
h	Steward, S., "A circuitous Route to CDPD Expansion; Cellular Digital Packet Data," Cellular Business vol. 13, No. 9 (Sep. 1996): p. 102. Available from Lexis.
h	"Sierra Wireless Adds CS-CDPD," Business Wire (Jan. 1997), Available from World Wide Web: ( <a href="http://www.sierrawireless.com/news/cdpd.html">http://www.sierrawireless.com/news/cdpd.html</a> ), downloaded Mar. 12, 2002.
h	Sukow, R., "GTE Wireless's CS-CDPD Technology Will Be Commercially Available Feb. 3" Communications Today (Jan. 1997). Available from DIALOG Corporation.
h	"Wireless: GTE, Hughes Network Systems and PCSI Join to Provide Nationwide Wireless Access for 'Super Phones,' Other Intelligent Devices," EDGE, on & about AT&T (Feb. 1997). Available from DIALOG Corporation.
h	Pate, K., "CS-CDPD May Solve Wireless Data User Problem with Coverage (Circuit Switched-Cellular Digital Packet Data Is Launched to Allow Data Users to Access CDPD Functionality Across an Entire Network)," RCR Radio Communications Report vol. 16, No. 5 (Feb. 1997): p. 2. Available from DIALOG Corporation.
h	"GTE Wireless Launches Long-Anticipated CS-CDPD Service; Other Cellular Carriers Continue to Reject Hybrid Approach," Wireless Data News, vol. 5, Issue 3 (Feb. 1997). Available from DIALOG Corporation.
h	"Industry News: CS-CDPD Goes Nationwide," Advanced Transportation Industry Review. (May 1997). Available from DIALOG Corporation.
h	"Dueling Realities: Cellular Data Developers Struggle to Build Business, Yet Foresee Future Consumer, Ad-Supported Market," Wireless Data News, vol. 5, Issue 11 (May 1997). Available from DIALOG Corporation.
h	"GTE Wireless Offers National Access for 'Super Phones'," Cellular Business (Jun. 1997). Available from DIALOG Corporation.
h	Morris, J., "Guide to Wireless Data Networks," Sierra Wireless, (Jul. 1997), available on the World Wide Web: ( <a href="http://www.ofb.net/heath/ardis/2110152.pdf">http://www.ofb.net/heath/ardis/2110152.pdf</a> ).
h	"GTE, Sierra Announce CDPD Solution (GTE Wireless and Sierra Wireless Introduced a Circuit Switched Cellular Digital Packet Data Solution)," RCR Radio Communications Report (Jun. 1998): p. 8. Available from DIALOG Corporation.
h	"GTE, Sierra Wireless Bring Circuit-Switched CDPD to Indiana Law Enforcement," Wireless Data News, vol. 6, Issue 15 (Jul. 1998). Available from DIALOG Corporation.
h	"Sierra Modem Adds Coverage (Indiana State Police Department is the First in US to Use New Circuit-Switched CDPD Modem from Sierra Wireless)," Wireless Week (Jul. 1998): p. 14. Available from DIALOG Corporation.
h	"GTE and Sierra Wireless Extend Reach of Cellular Digital Packet Data Networks Nationwide," Available from World Wide Web: ( <a href="http://www.sierrawireless.com/news/gte&amp;swi.html">http://www.sierrawireless.com/news/gte&amp;swi.html</a> ), downloaded Mar. 12, 2002.
h	"MP215: The First Ever CS-CDPD 3W Modem. (End-to-end wireless IP anywhere--Automatically)," Tri-M Systems, Coquitlam, B.C., Canada.
h	"CS-CDPD," Available from World Wide Web: ( <a href="http://www.sierrawireless.com/alliance/nettech_cscdpd.asp">http://www.sierrawireless.com/alliance/nettech_cscdpd.asp</a> ), downloaded Mar. 12, 2002.
h	"Circuit Switch Cellular Digital Packet Data," Available from World Wide Web: ( <a href="http://www.leapforum.org/published/internetnetworkMobility/split/node91.html">http://www.leapforum.org/published/internetnetworkMobility/split/node91.html</a> ), downloaded Mar. 18, 2002.

\*Examiner

Date Considered

04/24/2006

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

**INFORMATION DISCLOSURE  
CITATION**

(Use several sheets if necessary)

Atty. Docket No.

Serial No.

**3978-8****10/078,377**

Applicant

**Hanson, et al.**

Filing Date

TC/A.U.

**February 21, 2002****2681**

h	"MP215 Modem Installation, Configuration, and User's Guide," Revision 1.0, Part No. 2110036, Sierra Wireless, Jun. 1998.
h	"Where There's Voice, There's Now Cost-effective Data with Lucent Technologies' New Circuit Switched CDPD Capability," Lucent Technologies, Jun. 1996.
h	Hunt, Craig, "TCP/IP Network Administration" O'Reilly & Associates, Inc., pp. 28-35 (1992).
h	Chen, J.B. et al., "MOSS: A Mobile Operating System Substrate", Harvard University Division of Applied Sciences, May 1995.
h	Baker, M., "Changing Communication Environments in MosquitoNet," Proceedings of the IEEE Workshop on Mobile Computing Systems and Applications, Dec. 1994.
h	Cheshire, S. et al., "Experiences with a Wireless Network in MosquitoNet", Proceedings of the IEEE Hot Interconnects Symposium '95, Aug. 1995.
h	Zhao, X. et al., "Flexible Network Support For Mobility," Proceedings of the Fourth Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom 1998), Dallas Texas, Oct. 1998.
h	Baker, M. et al., "Supporting Mobility In MosquitoNet," Proceedings of the 1996 USENIX Technical Conference, San Diego, California, Jan. 1996.
h	Alzona, M., et al., "Project Octopus, A Framework for Ubiquitous Mobile Computing", Technical Report 1994-96, Carnegie Mellon University Information Network Institute, September 17, 1994
h	Bruegge, B., et al., "Applications of Mobile Computing and Communications", IEEE Personal Communications Magazine, 3(1):64-71, February 1996
h	Johnson, D., et al., "Truly seamless wireless and mobile host networking, Protocols for adaptive wireless and mobile networking", IEEE Personal Communications Magazine, 3(1):34-42, February 1996
h	Katz, R., et al., "The Case for Wireless Overlay Networks", Proceedings of SPIE Conference on Multimedia and Networking Vol. 2667, March 1996
h	Stemm, M., "Vertical Handoffs in Wireless Overlay Networks", Technical Report CSD-96-903, University of California, Berkeley, May 1996
h	Caceres, R., et al., "Fast and Scalable Handoffs for Wireless Internets", Proceedings of the Second Annual International Conference on Mobile Computing and Networking, November 1996

\*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

## INFORMATION DISCLOSURE CITATION

Atty. Docket No.

Serial No.

3978-8

10/078,377

**Applicant**

Hanson, et al.

Filing Date

Group

February 21, 2002

2681

## U.S. PATENT DOCUMENTS

[illegible]

**\*Examiner**

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

700225

**INFORMATION DISCLOSURE  
CITATION**

Atty. Docket No.

Serial No.

3978-8

10/078,377

Applicant

Hanson, et al.

Filing Date

Group

February 21, 2002

2681

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

h	3GPP SA: "Technical Specification Group Services and Systems Aspects: Architecture for an 1 IP Network, 3GPP TR 23.922", 3GPP Standard, 1 October 1999, XP002144276
h	3GPP: "TR23 923 V3.0.0: Combined GSM and Mobility Handling in UMTS IP CN", May 2000, pgs. 1-75 XP002282368
h	ETSI: "3G TS 23.107 Universal Mobile Telecommunications System (UMTS) QoS Concept and Architecture", ETSI TS 123 107 V.3.3.0, June 2000, pgs. 1-36, XP002201573
h	Dynamic Host Configuration Protocol, RFC 2131 (IETF March 1997), <a href="http://people.nokia.net/charliep/">http://people.nokia.net/charliep/</a>
h	Internet Mobility 4x4, Cheshire, S. & Baker, M., SIGCOMM '96, Computer Science Dept., Stanford Univ., AC< ISBN: 0-201-37928-7, p. 1-12
h	IP Mobility Support (RFC 2002, IETF October 1996)
h	Other papers authored by Charles Perkins posted at <a href="http://people.nokia.net/charliep/">http://people.nokia.net/charliep/</a>

\*Examiner

Date Considered

04/24/2006

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.



**INFORMATION DISCLOSURE  
CITATION**

Atty. Docket No.	Serial No.
3978-8	10/078,377
Applicant	
Hanson, et al.	
Filing Date	Group
February 21, 2002	2681

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)	
h	Perkins et al, DHCP for IPv6, The Third IEEE Symposium on Computers and Communications (ISCC'98) Athens, Greece June 30-July 2, 1998
h	Perkins et al., DHCP for Mobile Networking with TCP/IP (ISCC 1995), <a href="http://people.nokia.net/charliep/">http://people.nokia.net/charliep/</a>
h	Perkins et al., "Using DHCP with Computers that Move" (Wireless Networking 1993), <a href="http://people.nokia.net/charliep/">http://people.nokia.net/charliep/</a>
h	Piscitello, D., Phifer, INTERNET DRAFT L. Core Competence Wang Y. Hovey, R. Bellcore: "Mobile Network Computer Protocol (MNCP)" 9/3/97
h	Piscitello, D., Phifer, INTERNET DRAFT, L. Core Competence, Wang, Y., Hovey, R. Bellcore: "Mobile Network Computing Protocol (MNCP)," 8/28/97
h	<a href="http://www.geckil.com">www.geckil.com</a> search engine results using, for example, search terms "DHCP" and "Mobility"
h	Wong, Daniel, "Soft Handoffs in CDMA Mobile Systems," IEEE Personal Communications, December 1997

*Examiner	<i>[Signature]</i>	Date Considered	04/24/2006
-----------	--------------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

